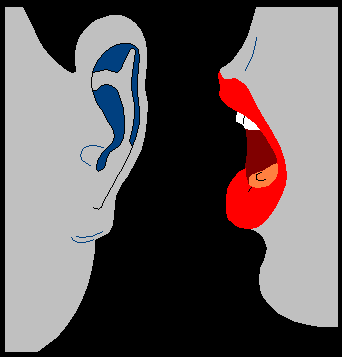
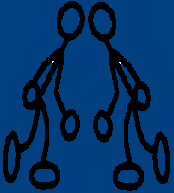
**Your worst nightmare**



**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Suppose at 8:00am, you told your best friend a secret.
2. Then, your best friend told two other friends that secret within ten minutes.
3. Then those two each told two others in ten minutes.
4. This continued all morning with every new person only telling two others every ten minutes.



1. How many people would know your secret by 12 noon?
2. Write an explanation of how you solved this question and what happened to your secret!